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D.F. Brunton

THE VASCULAR PLANT COLLECTIONS OF JOHN MACOUN IN ALGONQUIN PROVINCIAL PARK, ONTARIO

OTTAWA NATIONAL MUSEUMS OF CANADA

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ABSTRACT

John Macoun made botanical collections in Algonquin Park, Ontario, from May to August in 1900 and reported 511 species of vascular plants from areas in what is now the western part of the park. The author has found vouchers for 410 of the reported species, most of them in the National Herbarium of Canada (CAN), some duplicates at the University of Toronto (TRT) and a few represented only in other herbaria (MTMG, QK). Sixteen species in Macoun's list are known in Algonquin Park only from his collections. An additional fifteen which he reported lack vouchers in the herbaria which were searched and require confirmation before inclusion in the present-day flora of the park.

RESUME

John Macoun a herborisé dans le parc Algonquin en Ontario, de mai à août 1900 et il a trouvé 511 espèces de plantes vasculaires dans un endroit situé présentement dans la partie ouest de ce parc. L'auteur a retrouvé les spécimens actuels de 410 espèces découvertes par Macoun. La plupart sont dans l'Herbier national du Canada (CAN), quelque doubles à l'Université de Toronto (TRT), et quelques-uns seulement dans d'autres herbiers (MTMG, QK). Seize espèces dans la liste de Macoun sont connues dans le parc Algonquin uniquement de ses collections. Un groupe additionel de quinze espèces manquent de spécimens dans les herbiers où des recherches ont été effectuées et requièrent une confirmation avant de les inclure dans la flore actuelle de ce parc.

The Vascular Plant Collections of John Macoun in Algonquin Park, Ontario

John Macoun, the famous pioneer Canadian naturalist, spent the summer of 1900 conducting a botanical inventory of the recently established Algonquin National Park (now Algonquin Provincial Park), Ontario. In his capacity as Chief Botanist to the Geological Survey of Canada he conducted botanical investigations of many unknown parts of Canada in the late 1800's and early 1900's. Macoun's important impact on the development of western Canada is well known (Berton 1970) and he is widely acknowledged as one of the foremost figures in the development of the natural sciences in Canada. As such, his activities are of significant historical interest as well as being scientifically important.

Algonquin Park is situated on a highland area near the southern boundary of the Canadian Shield in this province. It contains the headwaters of over 15 river systems. The area was given park status in 1893 to protect these watersheds and to provide recreational opportunities. Macoun's attention was drawn to Algonquin because of a complete lack of information concerning the flora of central Ontario. He worked there, in the company of the zoologist William Spreadborough, in an effort to fill in the gaps of biological knowledge which this large wilderness area presented.

Access to the Park was by the (now defunct) Ottawa, Arnprior and Parry Sound Railway* which ran through the southern part of Algonquin. Beyond that, travel into the Park was by canoe only and, despite his age (he was 69 years old in 1900), Macoun travelled extensively through the western part of Algonquin.

The map included in this report indicates the sites at which he collected. It also indicates that Algonquin Park has been expanded in size significantly since Macoun's day and that much of the eastern part (botanically the most productive area to-day) was not included in 1900. Despite these limitations - personal and otherwise - he amassed a wealth of floristic data.

Locations of the Macoun Specimens

A portion of Macoun's accession list from that summer's work (covering the period June 5 to August 1, 1900) is preserved at the National Herbarium (CAN), in the National Museum of Natural Sciences, Ottawa. This list indicates the scope of his work that year and so, as a part of a larger floristic study of Algonquin Provincial Park a search was made for Macoun's Algonquin collections in the National Herbarium (CAN). This was conducted during several visits to the Herbarium in 1974 and 1975. A subsequent listing of collections (largely duplicates) was made at the University of Toronto herbarium (TRT). A few additional specimens were uncovered through correspondence with McGill and Queen's Universities, but it was evident that the vast majority was to be found in Macoun's home institution the National Museum.

Specimen List

The 511 species reported by John Macoun in Algonquin Park in 1900 are listed below. Following the location, the CAN accession number is given. In some cases duplicates are known from other herbaria, but this duplication is not indicated. If the specimen is maintained only in a collection other than CAN, however, that institution is noted. The location for each species is given as described by Macoun. These places are identified in modern terms in the section following the list.

Species names in parentheses and without data were reported on Macoun's accession list but are no longer supported by extant specimens. In total, 410 species are supported by extant specimens (all but 14 being at CAN).

The nomenclature employed by Macoun is now out-dated. In the following list we employ modern nomenclature for his records. The families are listed in the sequence followed by Fernald (1950).

* In 1899 this railway was absorbed into the Canada Atlantic Railway.

Acknowledgements

The assistance and guidance of Dr. J.H. Soper, Chief Botanist, and Dr. J. M. Gillett, Curator, at the National Museum of Natural Sciences were most valuable during the course of my search for Macoun specimens and are greatly appreciated. Dr. Gillett also reviewed the manuscript and provided many very valuable criticisms. During the period in which these data were accumulated, I was employed as Regional Environmental Planner with the Ontario Ministry of Natural Resources and that agency paid my expenses during the study. Mr. W. J. Crins reviewed an earlier version of this paper and offered helpful criticism. My thanks also to Paul M. Catling, (TRT), for specimen data in that herbarium and to David White, (CAN), for additional specimen data there.

Macoun Records

EQUISETACEAE

Equisetum arvense L., July 13, Cache L., 3261
(E. fluviatile L.)
(E. scirpoides Michx.)
E. sylvaticum L., June 10, Cache L., 2620

LYCOPODIACEAE

Lycopodium annotinum L., June 19, Cache L., 4618; July 11, Cache L., (TRT)
L. clavatum L., July 21, Perley's L., 5035
L. inundatum L., June 13, Brûlé L., 4543; July 12, Trout L., 4538
L. lucidulum Michx., June 7, Cache L., 4476
L. obscurum L., July 22, Catfish L., 4027
L. selago L., June 7, Cranberry L., (TRT); July 13, Cache L., 4319; July 19, Cranberry L., (MTMG)
L. tristachyum Pursh, July 22, Catfish L., 5322

ISOETACEAE

Isoetes muricata Dur., Aug. 16, Opeongo L., 205451; Aug. 18, Island L., 5588*; July 23, Catfish L., 5587
I. riparia Engelm., Aug. 18, Island L., 5588*

OPHIOGLOSSACEAE

Botrychium virginianum (L.) Sw., June 28, Cache L., 3082

OSMUNDACEAE

Osmunda (cinnamomea L.)
O. claytoniana L., June 10, Cache L., 2694, June 18, Cache L., 2695
O. regalis L., June 18, Cache L., 2650; June 19, Cache L., 2652

POLYPODIACEAE

Adiantum pedatum L., June 19, Cache L., 2375

* This sheet is a mixed collection of two species.

(Athyrium filix-femina (L.) Roth)
(Cystopteris fragilis (L.) Bernh.)
Dryopteris cristata (L.) Gray, July 13, Cache L., 1377
D. fragrans (L.) Schott, July 9, Cache L., 1309; June 10, Cache L., (TRT)
D. intermedia (Muhl.) Gray, July 11, Cache L., 1574
D. marginalis (L.) Gray, July 13, Cache L., 1183
Gymnocarpium dryopteris (L.) Newm., June 13, Cache L., 1008
Onoclea sensibilis L., July 13, Cache L., 765
Phegopteris polypodioides Fée, July 11, Cache L., 915
Polypodium virginianum L., June 7, Cache L., 2538
(Pteridium aquilinum (L.) Kuhn)
(Thelypteris confluens (Thunb.) Morton)
Thelypteris noveboracensis (L.) Nieuwl., July 12, Cache L., 810; July 14, Cache L., (TRT)
Woodsia ilvensis (L.) R.Br., July 12, Cache L., 94

TAXACEAE

Taxus canadensis Marsh., July 11, Cache L., 5686

PINACEAE

(Abies balsamea (L.) Mill.)
(Juniperus communis L. var. depressa Pursh)
(Larix laricina (Du Roi) K.Koch)
Picea (glauca (Moench) Voss)
P. mariana (Mill.) BSP, June 13, Cache L., (TRT); July 15, Opeongo L., 6306
Pinus (resinosa Ait.)
P. strobus L., July 21, White Trout L., 6506; July 21, Perley's L., (TRT)
(Thuja occidentalis L.)
(Tsuga canadensis (L.) Carr.)

TYPHACEAE

Typha latifolia L., July 4, Madawaska R., 6643

SPARGANIACEAE

Sparganium americanum Nutt. July 13, Cranberry L., 6689
S. angustifolium Michx., Aug. 24, Cache L., 6761
S. chlorocarpum Rydb., July 7, Cache L., 6830; Aug. 20, Cache L., 6827
S. fluctuans (Morong) Robins., Aug. 10, Opeongo L. 6886; Aug. 10, Cache L., (TRT)
S. (multipedunculatum (Morong) Rydb.)

ZOSTERACEAE

Potomogeton (alpinus Balbis)
P. amplifolius Tuckerm., Aug. 17, Opeongo L., 7733
P. (bicupulatus Fern.)
P. epihydrus Raf., July 9, Cache L., 7619; July 13, Cache L., 7620; Aug. 4, Cache L., 7623; July 18, Cache L., 7618; July 18, Petawawa R. (TRT)
P. (foliaceus Raf.)
P. gramineus L., Aug. 6, Opeongo L., (MTMG); Aug. 16, Opeongo L., 7892; Aug. 15, Opeongo L., 7893
P. natans L., July 10, Cache L., 7785
P. (pectinatus L.)
P. perfoliatus L., Aug. 4, Cache L., 8147
P. (praelongus Wulfen)
P. pusillus L., Aug. 20, Opeongo L., 7505; July 21, Burnt L., 7504

NAJADACEAE

(Najas flexilis (Willd.) Rostk. & Schmidt)

JUNCAGINACEAE

Scheuchzeria palustris L., July 23, Catfish L., 8341; July 29, Madawaska R., 8342

ALISMATACEAE

Alisma plantago-aquatica L., July 14, Cache L., 8635
Sagittaria graminea Michx., Aug. 24, Cache L., 8767 & 8769; Aug. 25, Cache L., (TRT)
S. latifolia Willd., July 25, Cedar L., 8829

GRAMINEAE

Agropyron (repens (L.) Beauv.)
A. trachycaulon (Link) Malte., July 23, Catfish L., 39535
Agrostis gigantea Roth, July 11, Cache L., 3129
A. (hyemalis (Walt.) BSP)
A. perennans (Walt.) Tuckerm., July 26, Petawawa R., 3148
A. scabra Willd., July 26, Petawawa R., (TRT)
(Avena sativa L.)
(Brachyelytrum erectum (Schreb.) Beauv.)
Bromus ciliatus L., July 17, Island L., 33870
Calamagrostis canadensis (Michx.) Nutt., July 13, Cranberry L., 32052
(Catabrosa aquatica (L.) Beauv.)
Cinna latifolia (Trev.) Griseb., July 11, Cache L., 31047
Deschampsia flexuosa (L.) Beauv., July 25, Petawawa R., 32899; July 26, Petawawa R. (TRT)
Echinochloa crusgalli (L.) Beauv., July 11, Cache L., 9253
Festuca pratensis Hudson, July 11, Cache L., 37800
F. rubra L., July 19, Otterslide Cr., 37942
Glyceria borealis (Nash) Batch., July 18, Otterslide Cr., 36842
G. canadensis (Michx.) Trin., July 13, Cranberry L., (TRT); July 13, Cache L., 37005
G. grandis S. Wats., July 25, Cedar L., 37225
G. melicaria (Michx.) F.T.Hubb., July 25, Petawawa R., 36941
G. striata (Lam.) Hitchc., July 13, Cache L., 37106
Milium effusum L., June 12, Rainy L., 30079
Muhlenbergia uniflora (Muhl.) Fern., July 24, Petawawa R., (TRT)
Oryzopsis asperifolia Michx., June 19, Cache L., 9999
Panicum canadensis (Poir.) Michx., July 25, Petawawa R., (TRT)
P. (capillare L.)
P. boreale Nash, July 25, Petawawa R., 8956; July 17, Joe Cr.,(TRT)*
P. columbianum Scribn., July 17, Island L., 9072 July
P. implicatum Scribn., July 17, Joe Cr., (TRT);* July 23, Catfish L., (TRT)
P. lanuginosum Ell., June 20, Cache L., 8998; July 23, Catfish L., 9019
P. linearifolium Scribn., July 23, Catfish L., 8924
P. xanthophysum Gray, July 24, Petawawa R., 9127
Phragmites communis Trin., July 26, Petawawa R., (TRT)
Poa (annua L.)
P. compressa L., July 17, Joe Cr., 34624
P. palustris L., July 11, Cache L., 35667; June 12, Cache L., 207633
P. saltuensis Fern., & Wieg., July 8, Cache L., 35474
Puccinellia fernaldii (Hitchc.) E. Voss, July 11, Cache L., 37310
(Setaria viridis (L.) Beauv.)
(Sporobolus sp.)
Schizachne purpurascens (Torr.) Swallen, June 12, Cache L., 34373
Trisetum spicatum (L.) Richter, July 26, Petawawa R., 33355
Zizania palustris L., Aug. 20, White's L., 9330

* This collection consists of two species.

CYPERACEAE

Carex (adusta Boott)
C. aenea Fern., July 12, Cache L., 20454
July 14, Cache L., 20449
C. (aquatilis Wahl.)
C. arctata Boott, July 13, Cache L., 22402
C. (artitecta Mack.)
C. bebbii Olney, July 11, Cache L., 20089
C. (brunnescens (Pers.) Poir.)
C. buxbaumii Wahl., July 23, Petawawa R., (TRT); July 24, Catfish L., 23428
C. (canescens L.)
C. communis Bailey, July 11, Cache L., 20879
C. crawfordii Fern., July 11, Cache L., 20009
C. crinita Lam., July 11, Cache L., 25329
C. cristatella Britt., July 11, Cache L. 20365 & 20366
C. debilis Michx., July 13, Cache L., 22367
C. deflexa Hornem., July 17, Cranberry L., 21006
C. deweyana Schwein., June 12, Cache L., 19505
C. disperma Dew., June 10, Cache L., 18141
C. (folliculata L.)
C. flava L., June 13, Brûlé L., 22905
C. (gracillima Schwein.)
C. houghtoniana Dew., June 10, Cache L., 23226
C. intumescens Rudge, June 19, Cache L., 26701
C. lasiocarpa Ehrh., July 13, Cranberry L., 23323
C. lenticularis Michx., July 18, Cranberry L., 24584
C. leptalea Wahl., July 10, Cache L., 20596
C. michauxiana Boeckl., June 26, Cranberry L., (TRT)
C. (oligosperma Michx.)
C. ormostachya Wieg., June 13, Cache L., 22142
C. (pauciflora Lightf.)
C. retrorsa Schwein., July 13, Cache L., 26575
C. rostrata Stokes, July 13, Cranberry L., 26359
C. scabrata Schwein., July 11, Cache L., 23370
C. scoparia Schk., July 11, Cache L., 20046
C. (sprengelii Dew.)
C. (sterilis Willd.)
C. stipata Muhl., June 11, Cache L., 18072
C. straminea Willd., July 11, Cache L., 20249
C. stricta Lam., July 21, Petawawa R., 25266
C. trisperma Dew., July 10, Cache L., 18273
C. vesicaria L., July 14, Cache L., 26141
C. (viridula Michx.)
C. vulpinoidea Michx., July 11, Cache L., 17903
Cladium mariscoides (Muhl.) Torr., July 31, White's L., 28821
Dulichium arundinaceum (L.) Britt., July 23, Catfish L., 27237
Eleocharis (acicularis (L.) R. & S.)
E. intermedia (Muhl.) Schultes, July 23, Catfish L., 27449
E. obtusa (Willd.) Schultes, July 30, Canoe L., 27494
E. spissum Fern., June 1, Cache L., 28456
E. tenellum Nutt., July 31, White's L., 28520
E. virginicum L., Aug. 8, Cache L., 28598; Aug. 20, Cranberry L., (TRT); July 31, White's L.; July 13, Cranberry L., (TRT)
Rhynchospora alba (L.) Vahl., Aug. 20, Cache L., 28862
R. (capillacea Torr.)
R. fusca (L.) Ait.f., July 13, Brûlé L., 28927
Scirpus atrovirens Willd., July 25, Cedar L., 29070
S. cyperinus (L.) Kunth, July 14, Cache L., 29041
S. hudsonianus (Michx.) Fern., July 23, Catfish L., 29358
S. rubrotinctus Fern., July 11, Cache L., 29568
S. (subterminalis Torr.)
S. validus Vahl., July 27, White Trout L., 29664

ARACEAE

Arisaema triphyllum (L.) Schott, June 10, Cache L., 29748
Calla palustris L., June 12, Cache L., 29781

ERIOCAULACEAE

Eriocaulon septangulare With., July 13, Cranberry L., 29988

PONTEDERIACEAE

Pontederia cordata L., July 31, Cache L. 45012; Aug. 20, White's L., 45011

JUNCACEAE

Juncus (alpinus Vill.)
J. (brachycephalus (Engelm.) Buch.)
J. brevicaudatus (Engelm.) Fern., Aug. 20, Cache L., 10914; Aug. 21, Cranberry L., 10911
J. bufonius L., July 30, Canoe L., 10053
J. (canadensis J. Gay)
J. effusus L., July 11, Cache L., 10803
J. filiformis L., June 13, Brûlé L., 10688
J. pelocarpus E. Mey., July 31, White's L., 11040
J. tenuis Willd., July 11, Cache L., 10227

LILIACEAE

Asparagus officinalis L., Aug. 11 Opeongo L., 13837
(Clintonia borealis (Ait.) Raf.)
Erythronium americanum Ker., May 30, Cache L., 13691
Maianthemum canadense Desf., June 12, Cache L., 14222
Medeola virginiana L., June 19, Cache L., 14600
Polygonatum pubescens (Willd.) Pursh, June 12, Cache L., 14569
Smilacina racemosa (L.) Desf., June 12, Cache L., 13945
S. trifoliata (L.) Desf., June 9, Cache L., 14148
Streptopus amplexifolius (L.) DC., July 4, Madawaska R., 14413; July 5, Madawaska R., (TRT)
S. rosea Michx., June 7, Cache L., 14517
Trillium erectum L., May 30, Cache L., 14626
T. undulatum Willd., May 30, Cache L., 14711

ORCHIDACEAE

Arethusa bulbosa L., July 23, Catfish L., 16412
Calopogon tuberosus (L.) BSP, July 11, Cranberry L., 16989
Corallorhiza maculata Raf., July 12, Cache L., 17162
C. (trifida Chat.)
Cypripedium acaule Ait., June 7, Cache L., 153499
Goodyera repens (L.) R.Br., Aug. 4, Cache L., 16870*
G. tesselata Lodd., Aug. 4, Cache L., 16870*
Habenaria blephariglottis (Willd.) Hook., July 23, Catfish L., 16284
H. clavellata (Michx.) Spreng., July 23, Catfish L., 15602
H. dilatata (Pursh) Hook., July 21, Catfish L., 16284
H. (lacera (Michx.) Lodd.)
H. obtusata (Pursh) Richards., July 4, Cache L., 16083
H. orbiculata (Pursh) Torr., July 18, Island L., 16243
H. viridis (L.) R.Br., June 12, Rainy L., 15499
Listera cordata (L.) R.Br., June 9, Cache L., 16675
Malaxis unifolia Michx., July 23, Catfish L., 45068
(Pogonia ophioglossoides (L.) Ker.)
Spiranthes romanzoffiana Cham., Aug. 20, Madawaska R., 16546; July 23, Catfish L., (TRT)

SALICACEAE

Populus (balsamifera L.)
P. grandidentata Michx., July 21, Perley's L., 40575
P. tremuloides Michx., July 4, Cache L., 40473
Salix bebbiana Sarg., June 10, Cache L., 48777; June 12, Cache L., 48778
S. discolor Muhl., June 10, Cache L., 49337; June 12, Cache L., 49335; July 23, Catfish L., 49350
S. gracilis Anderss., July 24, Cedar L., 49216
S. humilis Marsh., July 12, Cache L., 49279
S. lucida Muhl., June 12, Cache L., 45372; July 11, Cache L., (TRT)
S. pyrifolia Anderss., July 17, Joe Cr., 48223; July 24, Petawawa Falls, 48222

MYRICACEAE

Myrica asplenifolia L., July 4, Madawaska R., 40804
M. (gale L.)

CORYLACEAE

(Alnus rugosa (Du Roi) Spreng.)
Betula alleghaniensis Britt., July 4, Cache L., 41638

* This collection consists of two species.

B. papyrifera Marsh., June 13, Cache L., 41882
Corylus cornuta Marsh., July 13, Cache L., 42198
(Ostrya virginiana (Mill.) K.Koch)

FAGACEAE

Fagus grandifolia Ehrh., Aug. 13, Cache L., 42240
Quercus rubra L., July 23, Catfish L., 42334

ULMACEAE

(Ulmus americana L.)

POLYGONACEAE

Polygonum amphibium L., July 10, Cache L., 44301
P. aviculare L., July 14, Cache L., 43718
P. cilinode Michx., June 24, Cache L., 44757
P. convolvulus L., July 11, Cache L., 44699
P. douglasii Greene, Aug. 11, Opeongo L., 43868
P. (hydropiper L.)
P. (persicaria L.)
Rumex acetosella L., June 12, Cache L., 43147
R. crispus L., June 11, Cache L., 43439
R. obtusifolius Gray, July 17, Island L., 43498
R. (orbiculatus Gray)

CHENOPODIACEAE

(Chenopodium album L.)
C. (glaucum L.)

AMARANTHACEAE

(Amaranthus retroflexus L.)

PORTULACACEAE

(Claytonia caroliniana Michx.)

CARYOPHYLLACEAE

(Agrostemma githago L.)
Cerastium vulgatum L., June 12, Cache L., 52703
Saponaria vaccaria L., Aug. 21, Opeongo L., 55086
Silene cucubalus Wibel, June 27, Cache L., 54519
S. noctiflora L., July 5, Cache L., 54616
Stellaria calycantha (Ledeb.) Bong., July 5, Cache L., 51484
S. calycantha (Ledeb.) Bong., July 12, Cache L., 51485
Brasenia schreberi Gmel., Aug. 17, Opeongo L., (TRT)
Nuphar microphyllum (Pursh) Fern., Aug. 18, Otterslide Cr., 55187; July 25, Petawawa R., (TRT)
N. rubrodiscum Morong, July 19, Red Pine L., 55223; July 21, Red Pine L., (TRT); July 31, White's L., 55224
N. variegatum Engelm., July 10, Cache L., 55260
Nymphaea odorata Ait., July 20, Petawawa R., 55139; July 31, White's L., 55146; Aug. 17, Joe Cr., 55138; July 18, Otterslide L., (TRT); July 21, Red Pine L., (TRT)

RANUNCULACEAE

Actaea pachypoda Ell., July 17, Joe L., 59058
A. rubra (Ait.) Willd., June 12 & July 14, Rainy L., 58596
Aquilegia canadensis L., May 30 & June 28, Cache L., 58569
Clematis occidentalis (Hornem.) DC., July 23, Catfish L., 58141
C. virginiana L., July 18 & 21, Otterslide Cr., 58109
Coptis groenlandica (Oeder) Fern., May 31 & June 7, Cache L., 55433
Ranunculus (abortivus L.)
R. acris L., June 9, Cache L., 56668
R. pensylvanicus L.f., Aug. 11, Opeongo L., 56718
R. repens L., July 25, Cache L., 56829; July 17, Joe L., 55925
Thalictrum polygamum Muhl., July 5, Cache L., 57147

PAPAVERACEAE

Corydalis sempervirens (L.) Pers., July 4, Cache L., 59353
Dicentra cucullaria (L.) Bernh., June 8, Cache L., 59202

CRUCIFERAE

(Amoracia rusticana (Lam.) Gaertn., Mey. & Schreb.)
Capsella bursa-pastoris (L.) Medic., June 10, Cache L., 61335

(Cardamine pensylvanica Muhl.)
(Dentaria diphylla Michx.)
(Erysimum cheiranthoides L.)
Lepidium densiflorum Schrad., June 12, Cache L., 59770
Rorippa islandica (Oeder) Borbas, July 17, Joe Cr., 60539; June 21, Cache L., 60555
Sinapis arvensis L., June 14, Cache L., 60242
Thlaspi arvense L., June 12, Cache L., 59926

SARRACENIACEAE

Sarracenia purpurea L., June 13, Brûlé L., 64337

DROSERACEAE

Drosera intermedia Hayne, July 31, White's L., 64431
D. (rotundifolia L.)

PODOSTEMACEAE

(Podostemum ceratophyllum Michx.)

SAXIFRAGACEAE

Mitella diphylla L., June 4 & 24, Cache L., 67100
M. nuda L., June 7, Cache L., 67037
Ribes cynosbati L., May 30, Cache L., 68303
R. glandulosum Grauer, June 1 & July 11, Cache L., 68148
R. lacustre (Pers.) Poir., May 14, Cache L., 67750; July 30, Cache L., 67749
R. oxyacanthoides L., July 18, Otterslide Cr., 68475
R. (sativum Syme)
R. triste Pall., May 30 & July 14, Cache L., 68001
(Saxifraga virginiensis Michx.)
Tiarella cordifolia L., June 4, Cache L. 67756

ROSACEAE

Amelanchier arborea (Michx.f.) Fern., July 17, Island L., 69281
A. bartramiana (Tausch) Roemer, June 12, Rainy L., (TRT); July 24, Petawawa R., 69430 & 69433
A. sanguinea (Pursh) DC., June 14 & July 18, Cache L., (TRT)
Aronia melanocarpa (Michx.) Ell., June 14, & Aug. 13, Rainy L., 69136
Crataegus chrysocarpa Ashe, July 21, Perley's L., 69739
C. (succulenta Link.)
Fragaria vesca L., July 25, Cedar L., 71241
F. virginiana Duchesne, June 26, Cache L., 71173
Geum allepicum Jacq., July 25, Cedar L., 73875
G. rivale Nutt., June 13, Cache L., 73955
Potentilla argentea L., July 25, Cedar L., 72809
P. norvegica L., June 29, Cache L., (TRT)
P. palustris (L.) Scop., July 5, Cranberry L., 71644; July 5, Cache L., (TRT)
P. tridentata Ait., July 9, Cache L., 71844
Prunus nigra Ait., Aug. 17, Opeongo L., (TRT)
P. pensylvanica L.f., May 30, Cache L., 100507; July 17, Cache L., 100508
P. serotina Ehrh., June 7, Cache L., 100367
P. virginiana L., June 7 & Aug. 11, Cache L., 100408
Pyrus americana (Marsh.) DC., June 21, Cache L., (TRT); June 28, Cache L., 689
P. aucuparia (L.) Gaertn., Aug. 11, Opeongo L., (TRT)
Rosa acicularis Lindl., July 4, Cache L., (TRT)
R. palustris Marsh., July 17, Joe Cr., 74948
Rubus allegheniensis Porter, July 21, Perley's L., 70680
R. canadensis L., July 5, Source L., 70829; July 14, Source L., (TRT); July 21, Perley's L., 70830
R. (flagellaris Willd.)
R. (frondosus Bigel.)
R. groutianus Blanch., July 5, Cranberry L., 70936
R. idaeus L., July 21, Cache L., 69928
R. (pubescens Raf.)
R. setosus Bigel., July 6, Cranberry L., (TRT); July 12, Cranberry L., 70920
Spiraea (alba Du Roi)
S. tomentosa L., July 18, Joe Cr., 68789

LEGUMINOSAE

Trifolium aureum Poll., Aug. 11, Opeongo L., 75560
T. hybridum L., June 12, Cache L., 75512
T. pratense L., June 12, Cache L., 75418
T. repens L., June 12, Cache L., 75463
Vicia cracca L., July 17, Island L., 77750
V. sativa L., July 11, Cache L., 77665

LINACEAE

Linum usitatissimum L., July 15, Cache L., 78708

OXALIDACEAE

Oxalis montana Raf., June 29, Cache L., 78542; June 27, Cache L., (TRT)

GERANIACEAE

Geranium bicknellii Britt., July 23, Catfish L., 78334

POLYGALACEAE

(Polygala paucifolia Willd.)

CALLITRICHACEAE

Callitriche palustris L., July 17, Joe Cr., 79090

ANACARDIACEAE

Rhus radicans L., July 19, Red Pine L., 79492
R. typhina L., July 20, Perley's L., 79527

AQUIFOLIACEAE

Ilex verticillata (L.) Gray, July 6, Cache L., 79589
Nemopanthus mucronata (L.) Trel., June 1, Cache L., 79642

ACERACEAE

Acer pensylvanicum L., May 31 & Aug. 11, Cache L., 79825
A. rubrum L., June 12, Cache L., 79854
A. saccharum L., July 7, Cache L., 79909
A. spicatum Lam., July 13, Cache L., 79961

VITACEAE

(Parthenocissus vitacea (Knerr) Hitchc.)

TILIACEAE

Tilia americana L., July 25, Cedar L., 80217

GUTTIFERAE

Hypericum boreale (Britt.) Bickn., July 30, Island L., (TRT)
H. canadense L., July 31, White's L., (TRT)
H. ellipticum Hook., July 6, Cranberry L., 80493
H. (mutilum L.)
H. perforatum L., July 21, Perely's L., 80562
Triadenum fraseri (Spach) Gleason, July 19, Otterslide L., 80646

VIOLACEAE

Viola blanda Willd., July 5 & 18, Cache L., 80916
V. cucullata Ait., June 6 & 28, Cache L., (TRT)
V. lanceolata L., June 13, Brûlé L., 81290
V. pubescens Ait., May 31 & June 8, Cache L., 81634
V. renifolia Gray, July 17, Cache L., 81661
V. septentrionalis Greene, June 6 & 28, Cache L., 81816

THYMELAEACEAE

(Dirca palustris L.).

ONAGRACEAE

Circaea alpina L., June 28, Cache L., 83874
(Epilobium angustifolium L.)*
E. (glandulosum Lehm.)
E. (leptophyllum Raf.)
E. (strictum Muhl.)
Oenothera (biennis L.)
O. perennis L., July 25, Cedar L., 83719

HIPPURIDACEAE

(Hippurus vulgaris L.)

ARALIACEAE

Aralia hispida Vent., July 11, Cache L., 84211
A. nudicaulis L., June 6 & 12, Cache L., 84352
A. racemosa L., July 5, Cache L., 94397; July 7, Cache L., (TRT)

UMBELLIFERAE

(Carum carvi L.)
Cicuta bulbifera L., July 25, Petawawa R., 84632
Osmorhiza claytonii (Michx.) Clarke, July 27, Cache L., 85230
Sanicula marilandica L., July 28, Red Pine L., 85470
Sium sauve Walt., Aug. 11, Opeongo L., 85556

* Specimens of all species of Epilobium were on loan during the search period.

CORNACEAE

Cornus alternifolia L.f., July 14, Cache L., 85710
C. (canadensis L.)**
C. (stolonifera Michx.)

PYROLACEAE

Chimaphila umbellata (L.) Bart., July 3, Cache L., 86232
Moneses uniflora (L.) Gray, July 3, Catfish L., 87312
Monotropa hypopithys L., July 14, Cache L., 87482
M. uniflora L., Aug. 4, Cache L., 87445
Pyrola asarifolia Michx., July 4, Cache L., 86746*; July 23, Catfish L., 86371
P. elliptica Nutt., July 12, Cache L., 86726
P. minor L., July 5, Cache L., 21787; July 5, Cranberry L., (TRT)
P. secunda L., July 11, Cache L., 87069; July 23, Catfish L., 87180
P. virens Schweigger, July 4, Cache L., 86746*

ERICACEAE

Andromeda glaucophylla Link., June 1, Cache L., 88839
Arctostaphylos uva-ursi (L.) Spreng., June 11, Cache L., 89311
Chamaedaphne calyculata (L.) Moench, May 30 & July 13, Cache L., 88887
Epigaea repens L., June 9, Cache L., 88965
Gaultheria hispidula (L.) Bigel., June 7, Cache L., 89075
G. procumbens L., July 12, Cache L., 89015
Kalmia angustifolia L., June 26, Cache L., 88156
K. polifolia Wang., June 1 & 12, Cache L., 88218
Ledum groenlandicum Oeder, June 6 & July 13, Cache L., 87588
Vaccinium angustifolium Ait., May 31 & July 14, Cache L., 89564
V. macrocarpon Ait., July 13, Cranberry L., 90506
V. myrtilloides Michx., June 9 & July 23, Cache L., 89650
V. oxycoccos L., June 26, Cranberry L., 90615

* This collection consists of two species.
** On loan during the search period.

PRIMULACEAE

Lysimachia terrestris (L.) BSP, July 13, Cranberry L., 91193
L. thyrsiflora L., July 6, Madawaska R., 91275
(Trientalis borealis Raf.)

OLEACEAE

Fraxinus nigra Marsh., July 3, Cache L., 92061

MENYANTHACEAE

Menyanthes trifoliata L., July 23, Catfish L., 9204

APOCYNACEAE

Apocynum androsaemifolium L., June 26, Cache L., 93012

ASCLEPIADACEAE

Asclepias incarnata L., July 14, Source L., 93137

HYDROPHYLLACEAE

Hydrophyllum virginianum L., June 23, Cache L., 93707

BORAGINACEAE

Echium vulgare L., June 18, Cache L., 94018
Lappula echinata Gilib., June 26, Cache L., 94129

VERBENACEAE

(Verbena officinalis L.)

LABIATAE

Dracocephalum parviflorum Nutt., July 23, Catfish L., 94812
Galeopsis tetrahit L., July 13, Cache L., 94882
Lycopus americanus Muhl., July 17, Cache L., 97032
L. uniflorus Michx., July 27, Otterslide L., 95087
Mentha arvensis L., July 17, Otterslide L., 95176
Nepeta cataria L., Aug. 11, Opeongo L., 95368
Prunella vulgaris L., June 29, Cache L., 95443

Satureja vulgaris (L.) Fritsch, July 25, Cedar L., 95582
Scutellaria galericulata L., July 17, Joe Cr., 95636; July 19, Cache L., 95635
S. lateriflora L., July 17, Joe Cr., 95723
(Stachys palustris L.)

SOLANACEAE

Physalis grandiflora Hook., Aug. 11, Opeongo L., 95934

SCROPHULARIACEAE

Melampyrum lineare Desr., July 23, Catfish L., 96993
Mimulus ringens L., July 6, Cache L., 97206
Verbascum thapsus L., July 14, Cache L., 98620
Veronica scutellata L., July 17, Joe Cr., 99062
V. tenella All., July 21, Burnt L., 99131

LENTIBULARIACEAE

Utricularia cornuta Michx., July 31, White's L., 99512
U. intermedia Hayne, July 24, Petawawa R., 99549
U. vulgaris L., July 10, Cache L., 99671

PLANTAGINACEAE

(Plantago major L.)

RUBIACEAE

Galium (aparine L.)
G. asprellum Michx., July 17, Island L., 120181; July 29, Otterslide L., 120184
G. tinctorium L., July 25, Cedar L., 120403
G. trifidum L., June 19, Cache L., 120599
G. triflorum Michx., June 23, Cache L., 120764; June 27, Cache L., (TRT)
(Mitchella repens L.)

CAPRIFOLIACEAE

Diervilla lonicera Mill., June 23, Cache L., 120940
Linnaea borealis L., June 21, Cache L., 121010
Lonicera canadensis Bartr., May 30, Cache L., 121168
L. hirsuta Eat., July 21, Perley's L., 121304
Sambucus canadensis L., Aug. 4, Muskoka R., 121517; Aug. 11, Muskoka R., (TRT)
S. pubens Michx., May 30 & July 7, Cache L., 121584
Viburnum alnifolium Marsh., May 31, Cache L., 121820
V. cassinoides L., June 22 & July 24, Cache L., 121807
V. trilobum Marsh., June 18 & 21, Cache L., 121848; July 6, Madawaska R., (TRT)

CAMPANULACEAE

Campanula aparinoides Pursh, July 27, Otterslide Cr., 122317
Lobelia dortmanna L., July 29, Island L., 122799
L. inflata L., Aug. 11, Opeongo L., 122819

COMPOSITAE

Achillea millefolium L., July 7, Cache L., 107313
Ambrosia trifida L., June 21, Cache L., 106505
Anaphalis margaritacea (L.) Gray, June 13, Cache L., 106098
Antennaria canadensis Greene, July 17, Island L., 21800
A. plantaginifolia (L.) Richards., July 23, Catfish L., 105144
(Anthemis cotula L.)
Artemisia ludoviciana Nutt., Aug. 11, Opeongo L., 108458
A. vulgaris L., Aug. 11, Opeongo L., 108335
Aster macrophyllus L., July 29, Island L., 102161
A. nemoralis Ait., Aug. 13, Cranberry L., 103500; Aug. 11, Cranberry L., (TRT)
A. puniceus L., Aug. 14, Opeongo L., 103308
A. (simplex Willd.)
A. tradescantii L., Aug. 16, Opeongo L., 102812
A. umbellatus Mill., Aug. 16, Opeongo L., 10380
Bidens (cernua L.)
B. vulgata Greene, Aug. 20, Madawaska R., 106914
(Chrysanthemum leucanthemum L.)
Cirsium muticum (L.) Scop., July 6, Cache L., 111186
(Cnicus benidictus L.)

Erechtites hieracifolia (L.) Raf., Aug. 18, Cache L., 109826
Erigeron annuus (L.) Pers., June 13, Cache L., 104412
E. canadensis L., July 6, Cache L., 104495
E. (philadelphicus L.)
E. strigosus Muhl., July 21, Perley's L., 104431 & 104463
Eupatorium maculatum L., July 29, Island L., 112910
E. perfoliatum L., July 25, Cedar L., 112968
Gnaphalium macounii Greene, Aug. 18, Madawaska R., 106300
G. uliginosum L., July 17, Island L., 106351
Helianthus strumosus L., Aug. 2, Rainy L., 106820; Aug. 11, Rock L., (TRT)
Hieracium canadense Michx., Aug. 11, Opeongo L., 112801
H. (scabrum Michx.)
Lactuca biennis (Moench) Michx., July 25, Cedar L., 111952
L. canadensis L., July 13, Cache L., 111875
Petasites palmatus (Ait.) Gray, May 30 & July 11, Cache L., 108817; June 1, Cache L., (TRT)
(Prenanthes alba L.)
Rudbeckia hirta L., July 13, Madawaska R., 106628
Senecio aureus L., June 12, Rainy L., 110410
Solidago (arguta Ait.)
S. bicolor L., Aug. 11, Opeongo L., 101165
S. canadensis L., Aug. 16, Opeongo L., 101729
S. graminifolia (L.) Salisb., Aug. 11, Opeongo L., 101998
S. rugosa Ait, Aug. 14, Opeongo L., 101598
S. (squarrosa Muhl.)
S. uliginosa Nutt., July 23, Catfish L., 101535
Sonchus asper (L.) Hill., July 31, Cache L., 11828
Tanacetum vulgare L., Aug. 11, Opeongo L., 107858
(Taraxacum officinale Weber)

Significance of Macoun's Collections

Aside from the historical value of the specimens themselves and the total list as a reflection of Macoun's work, the Macoun specimens provide indications of floristic changes in Algonquin Park. Settlement was quite extensive in the Cache Lake and Canoe Lake areas at that time and Macoun's collections reflect this. As well, the hardwoods of western Algonquin Park were of little commercial value until the 1920's and so the forests were less disturbed than they are today.

Species Collected in 1900 which are unknown in present day Algonquin Park

A flora of Algonquin Park has been prepared which indicates the present-day knowledge of the species which occur (or occurred) in Algonquin Park (Brunton ms.). Sixteen species are known only from Macoun's collections, these are:

Panicum columbianum Scribn.
Carex cristatella Britt.
Habenaria dilatata (Pursh) Torr.
Polygonum douglasii Greene
Saponaria vaccaria L.
Nuphar rubrodiscum Morong
Ribes oxyacanthoides L.
Pyrus aucuparia (L.) Gaertn.
Rubus groutianus Blanch.
Rubus setosus Bigel.
Hydrophyllum virginianum L.
Dracocephalum parviflorum Nutt.
Nepeta cataria L.
Veronica tenella All.
Bidens vulgata Greene
Helianthus strumosus L.

Species Reported in 1900 (without extant specimens) presently unknown in Algonquin Park

Of the 105 species listed which are not supported by extant specimens, a number would represent new records for Algonquin Park. Since sixteen species in Algonquin are known only from Macoun's specimens (above), it would seem reasonable that at least some of these unsupported records are valid. The following fifteen species not supported by vouchers appear on the list and represent the only record for these species in the park.

Potamogeton foliosus Raf.
Catabrosa aquatica (L.) Beauv.
Sporobolus sp.
Carex folliculata L.
Carex sterilis Willd.
Eriophorum angustifolium Honckeny
Rhynchospora capillacea Torr.
Juncus alpinus Vill.
Chenopodium glaucum L.
Crataegus succulenta Link.
Rubus frondosus Bigel.
Hypericum mutilum L.
Galium aparine L.
Cnicus benidictus L.
Solidago arguta Ait.

Location of Collection Sites

The names of several of Macoun's prime collection sites have changed. In addition, his sites can be reasonably well located in modern times. The following comments deal with Macoun's sites in order of their significance to the species list. They are presented in the light of our present knowledge of the geography of the park.

(1) Cache Lake. - In Canisbay Township. This was the park headquarters in 1900 and an important station along the (now defunct) Ottawa, Arnprior and Parry Sound Railway which had been built across the park between 1893 and 1896. It was much more open than it is today; there were a number of government houses and private cottages, and a few small cultivated fields (garden crops for local consumption).

(2) Opeongo Lake. - It is the largest lake in the park, spanning Sproule and Bower Townships (southern and northern sections of the lake, respectively). It is not entirely clear where Macoun was on the lake, as he only refers to it in the broadest sense. We believe, however, that his collecting was done in the Bower Township section of the lake at the then operating Dennison Farm. This was the only farm in the area, and is the only reasonable location for many of his collections, such as Nepeta, Asparagus, Artemisia, Tanacetum, Saponaria, etc. (several of which were found there in 1975). The specimens collected which do not fit into this man-associated group are aquatics or shoreline species. This would be consistent as he would have reached the farm by water, once arriving at the south end of Opeongo by railroad.

(3) Catfish Lake. - Name unchanged. In Lister Township. Macoun passed via this lake on his way to Cedar Lake in July. He collected some very rare bog orchids there (Habenaria blephariglottis, Habenaria dilatata, Arethusa bulbosa) which we could not find in a search of the apparent site (on the northeastern shore of the lake) in 1975.

(4) Cranberry Lake. - Now called Canisbay Lake, in Canisbay Township. The bog species from this location were taken at the southern extremity of the lake.

(5) Island Lake. - Now called Burnt Island Lake in McLaughlin Township - on the main canoe route into the park interior.

(6) Cedar Lake. - Name unchanged. In Lister and Deacon Townships, with a small portion in Boyd Township (which was far out of his way). There was a small settlement around a logging camp just west of the present village of Brent and this almost certainly was where Macoun concentrated his collecting. We then assume that his collections of aliens and associated weedy species were collected in Lister Township.

(7) Joe Creek. - Name unchanged. In Hunter Township. Damming along the creek has altered the situation somewhat and the section Macoun collected in would today be described as being between Little Joe Lake and Burnt Island Lake.

(8) Otterslide Creek. - Name unchanged. Running between Otterslide Lake and Big Trout Lake in McLaughlin Township.

(9) Perley's Lake. - Now known as Perley Lake. In Osler Township (and a small portion of Freswick Township).

(10) Madawaska River. - Name unchanged. This is a very long river, but as it runs through Cache Lake, and the collection dates overlap with those of collections at Cache Lake (e.g. July 4, 1900) we can safely assume that these collections were made east of Cache Lake (and close to it) in Canisbay Township.

(11) White's Lake. - Now known as Lake Tanamakoon. In Canisbay and Peck Townships. Macoun collected in the vicinity of an abandoned logger's camp, as indicated on several labels from this site.

(12) Rainy Lake. - Now known as Rain Lake. In McCraney Township. It was also a stop on the Ottawa, Arnprior and Parry Sound Railway.

(13) Brûlé Lake. - Name unchanged. In Hunter Township. This was also an important railroad station, with a relatively large association settlement. It is surprising that Macoun spent so little time there because there was good access to the lake.

Petawawa River. - Name unchanged. Another long river, and several collection dates are associated with it. However, as these collections were made on Macoun's trip to Cedar Lake in July we can deduce which sections of the river he was on by comparing his Petawawa River dates with dates from associated lakes on the river system. The Petawawa collections are broken down as follows:

(14) Petawawa River. July 20 and July 21 - between Longer Lake and Red Pine Bay of Burntroot Lake, Bishop Township.

(15) Petawawa River. July 24 - Between Narrowbag and Cedar Lakes, Lister Township. At least two and probably all specimens were collected at Stack's Rapids (Petawawa Falls).

(16) Petawawa River. July 25 - Same section as above, probably between Stack's Rapids and Cedar Lake.

(17) Petawawa River. July 26 - Either east or west of Catfish Lake, but in Lister Township.

(18) Red Pine Lake. - Now known as Red Pine Bay, Burntroot Lake, in Bishop Township.

(19) Canoe Lake. - Name unchanged. In Peck Township. This was a very important railroad stop, and as with Brûlé Lake, it is surprising that Macoun spent so little time there.

(20) Source Lake. - Name unchanged. In Peck Township. The collections were made at the southeast end of the lake where the Little Madawaska River flows from it.

(21) Burnt Lake. - Now known as Burntroot Lake. In Bishop (southern three-quarters) and Osler Townships.

(22) White Trout Lake. - McLaughlin Township. Now considered to be two lakes, Big Trout Lake and Trout Lake. Macoun undoubtedly collected on Big Trout, as the arm of "White Trout" which is now called Trout Lake was off the main route which he was following and had he visited it we should expect to see alien species listed from the large farm complex which was there.

(23) Joe Lake. - Name unchanged. In Peck Township (mostly) and Hunter Township. It is adjacent to the railroad and was a fairly important stop.

(24) Muskoka River. - Now known as the Oxtongue River. In Peck and Finlayson Townships. This is Macoun's only collection from that river and we only have his label (identifying the specimen as a part of his Algonquin Park flora) as evidence that the collection was made in the park. It was probably made at the Tea Lake Dam, Peck Township, as a tote road ran to there from Canoe Lake.

(25) Rock Lake. - Name unchanged. In Nightingale Township. Clearly, the Cache Lake - Canisbay Lake area was the most closely collected area. As his summer's headquarters were there, this is perhaps not surprising. It is surprising, however, that Macoun so seldom travelled the railway to other areas (e.g. Rock Lake, Brûlé Lake, Canoe Lake, Rain Lake). Perhaps he felt these areas were so similar to Cache Lake that they did not warrant the detailed attention he gave the latter. Certainly he suggests in his autobiography that he was not overwhelmed by his Algonquin summer. He summed up his feelings by saying "frequently I made visits to Ottawa, thus breaking the tedium of the

summer.."! On a more positive note, however, he went on to say "...we made many trips amongst the islands and lakes of the park and made large collections. These gave us a fairly good idea of the flora and fauna of the wilder parts of Ontario." (Macoun 1922).

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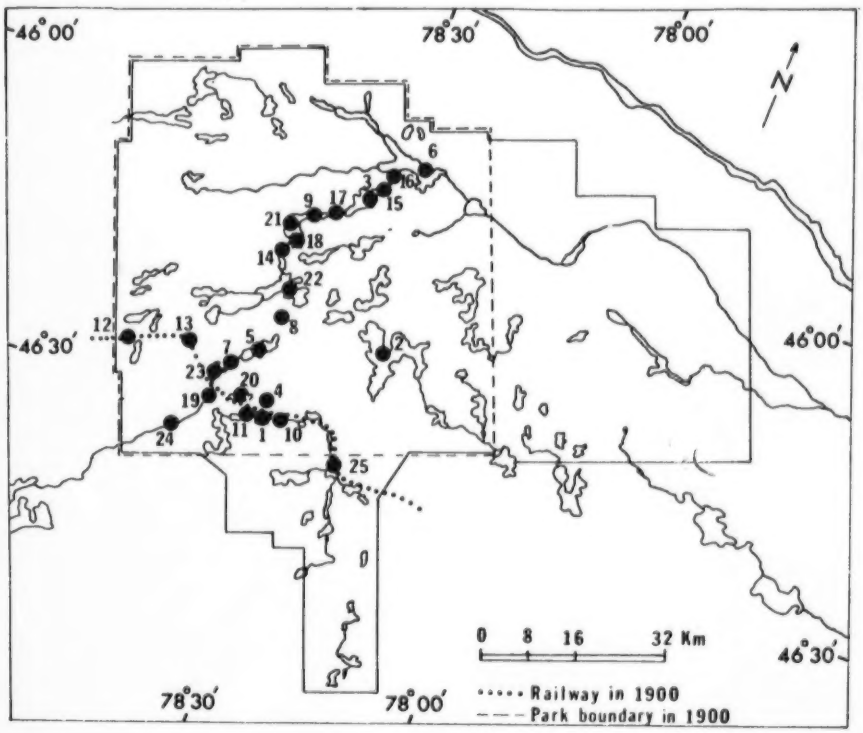
MAP: Collection Sites of John Macoun in Algonquin Park.



1. Cache Lake
2. Opeongo Lake
3. Catfish Lake
4. Cranberry Lake (Canisbay Lake)
5. Island Lake (Burnt Island Lake)
6. Cedar Lake
7. Joe Creek
8. Otterslide Creek
9. Perley's Lake (Perley Lake)
10. Madawaska River
11. White's Lake (Lake Tanamakoon)
12. Rainy Lake (Rain Lake)
13. Brûlé Lake
14. Petawawa River - July 20 & 21
15. Petawawa River - July 24
16. Petawawa River - July 25
17. Petawawa River - July 26
18. Red Pine Lake (Red Pine Bay, Burntroot Lake)
19. Canoe Lake
20. Source Lake
21. Burnt Lake (Burntroot Lake)
22. White Trout Lake (Big Trout Lake)
23. Joe Lake
24. Muskoka River (Oxtongue River)
25. Rock Lake

SYLLOGEUS TITLES

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